

CLAIMS

1. A method of purifying contaminated soil by microorganisms, comprising adding a soil-improving material having water-absorbing properties and being capable of maintaining a non-swelling property and non-viscosity after water absorption to contaminated soil containing clay or silt, and then mixing the soil by agitation, so as to cause the soil-improving material to absorb pore water contained in the clay or silt, while adding microbes degrading contaminants contained in the contaminated soil to the contaminated soil, or utilizing degradation microbes inhabiting the contaminated soil, thereby microbially degrading the contaminants.
2. The method of purifying contaminated soil by microorganisms according to claim 1, wherein the degradation microbes are added to the contaminated soil while not being contained by the soil-improving material.
3. The method of purifying contaminated soil by microorganisms according to claim 1, wherein aeration is performed for the contaminated soil when the contaminant is microbially degraded.
4. The method of purifying contaminated soil by microorganisms according to any one of claims 1 to 3, wherein the soil-improving material is an inorganic soil-improving material.
5. The method of purifying contaminated soil by microorganisms according to claim 4, wherein the inorganic soil-improving material is perlite.
6. A method of purifying contaminated soil by microorganisms, comprising the steps of:
adding a soil-improving material having water-absorbing properties and being capable of maintaining a non-swelling property and non-viscosity after water absorption to contaminated soil containing clay or silt, followed by mixing the soil by agitation; and
degrading contaminants contained in the contaminated soil by adding microbes that degrade the contaminants to the contaminated soil and/or utilizing

- degradation microbes inhabiting the contaminated soil.
7. The method of purifying contaminated soil by microorganisms according to claim 6, wherein the degradation microbes and the soil-improving material are separately added to the contaminated soil.
 8. The method of purifying contaminated soil by microorganisms according to claim 6, wherein aeration is performed for the contaminated soil in the step of degrading the contaminants.
 9. The method of purifying contaminated soil by microorganisms according to any one of claims 6 to 8, wherein the soil-improving material mainly comprises an inorganic soil-improving material.
 10. The method of purifying contaminated soil by microorganisms according to claim 9, wherein the inorganic soil-improving material is perlite.